6697HO 00056260

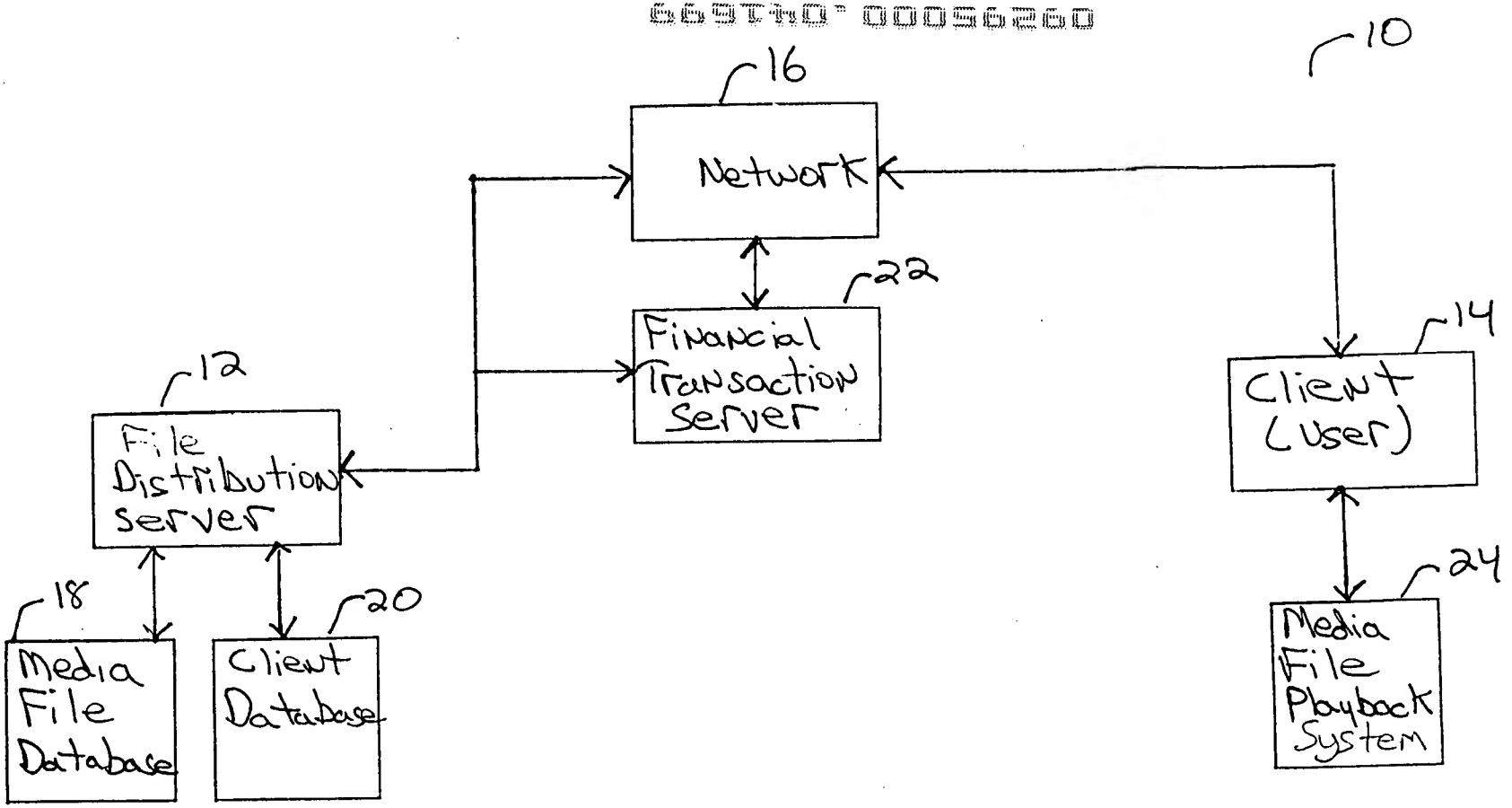

Figure 1

Apr 09 99 08:04a Mark Galbraith 1 (925) 634 5949 p.2

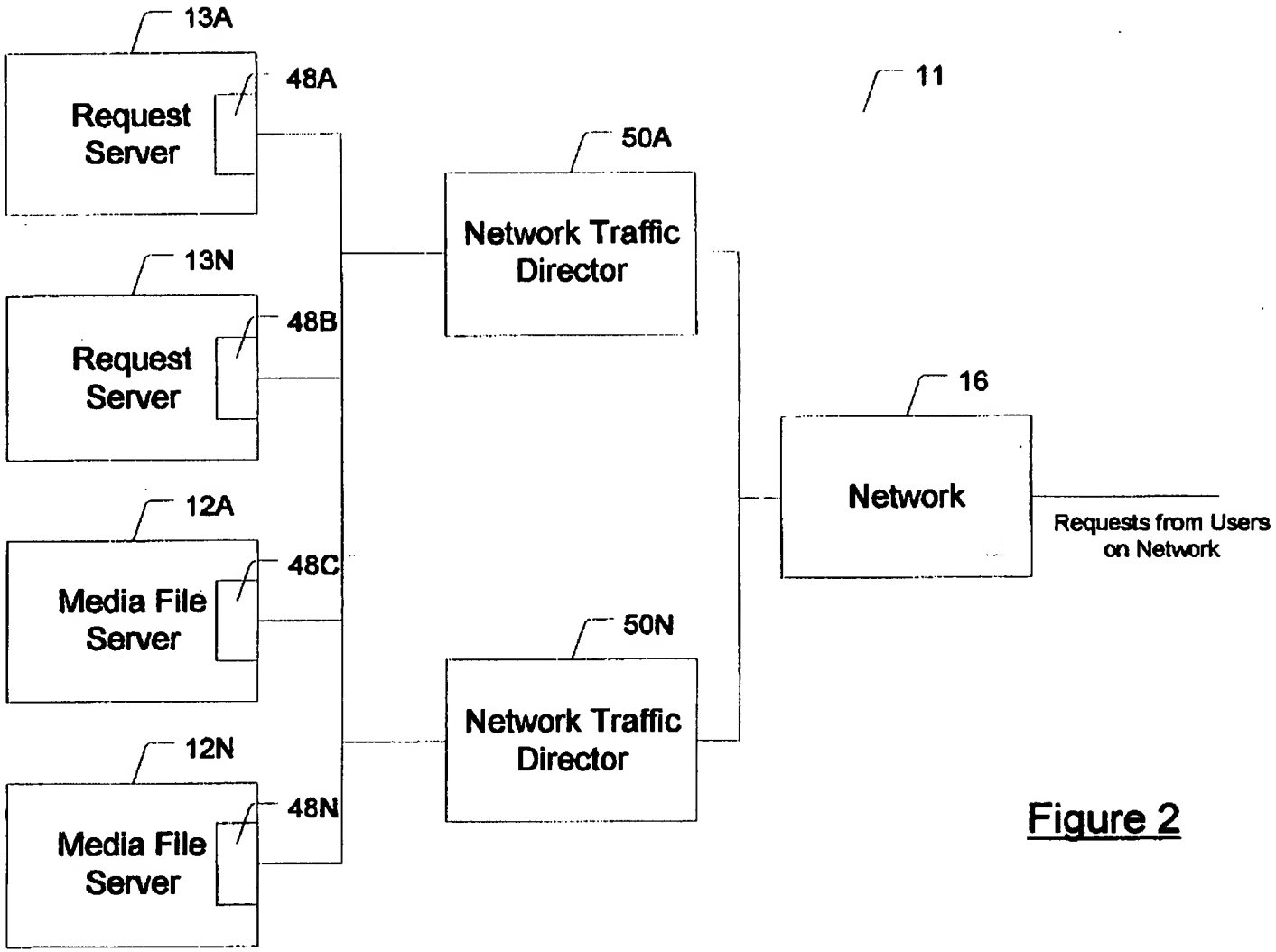

Figure 2

6697HO 00056260

Apr 09 99 08:04a Mark Galbraith 1 (925) 634 5949 p.3

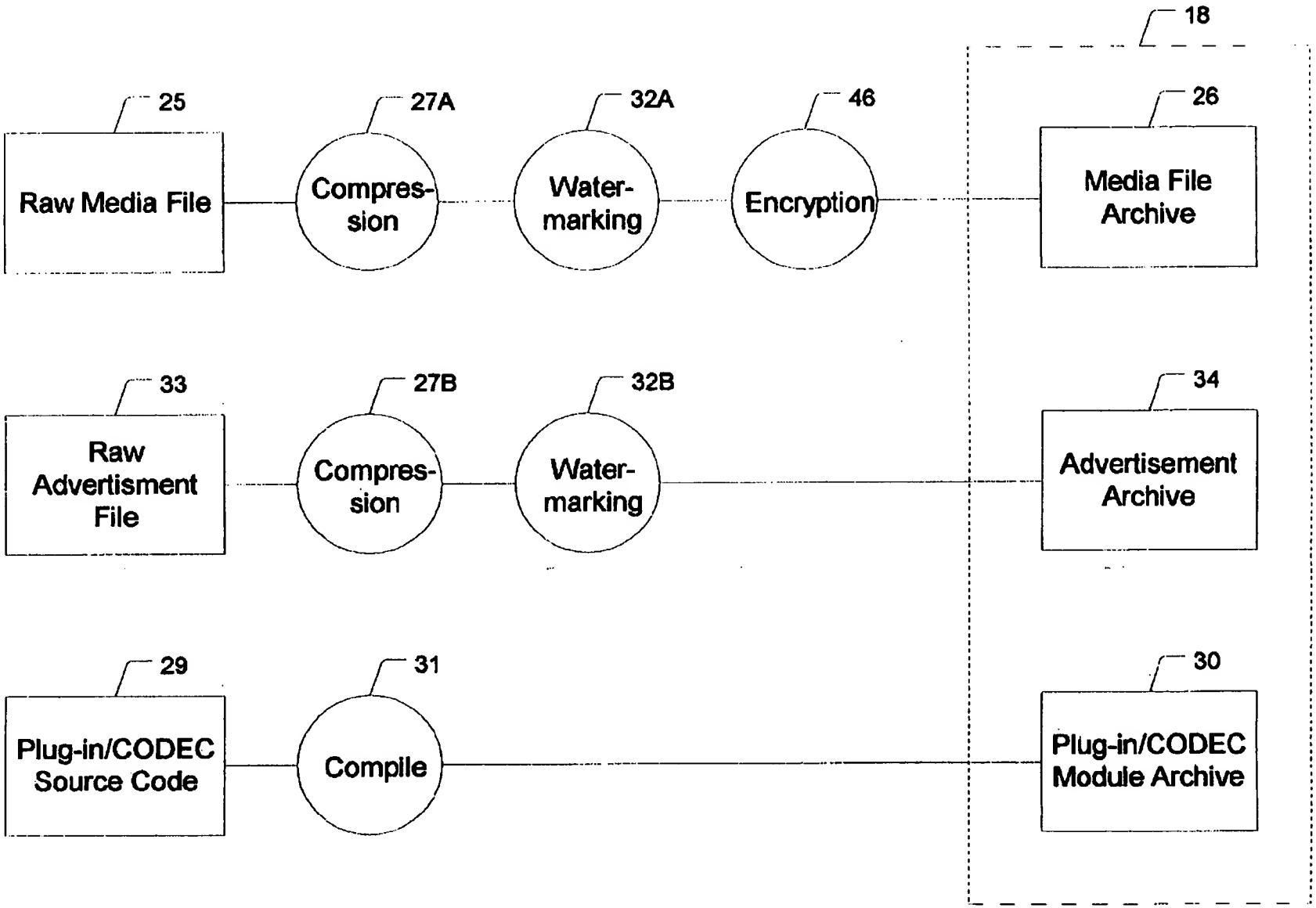

Figure 3

Apr 09 99 08:05a Mark Galbraith 1 (925) 634 5949 p.4

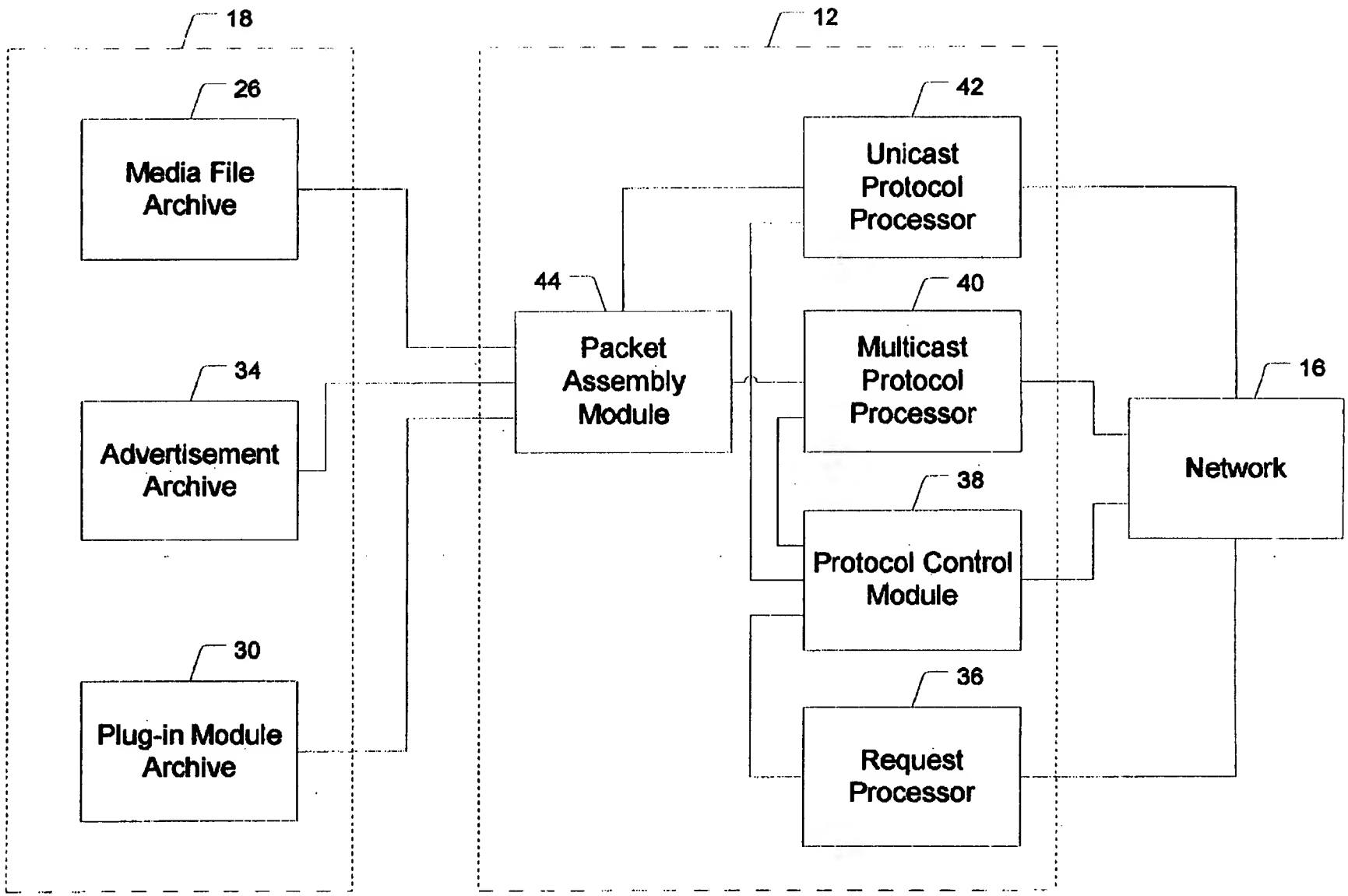

Figure 4a

Apr 09 99 08:05a Mark Galbraith 1 (925) 634 5949 p.5

6697h0 0056260

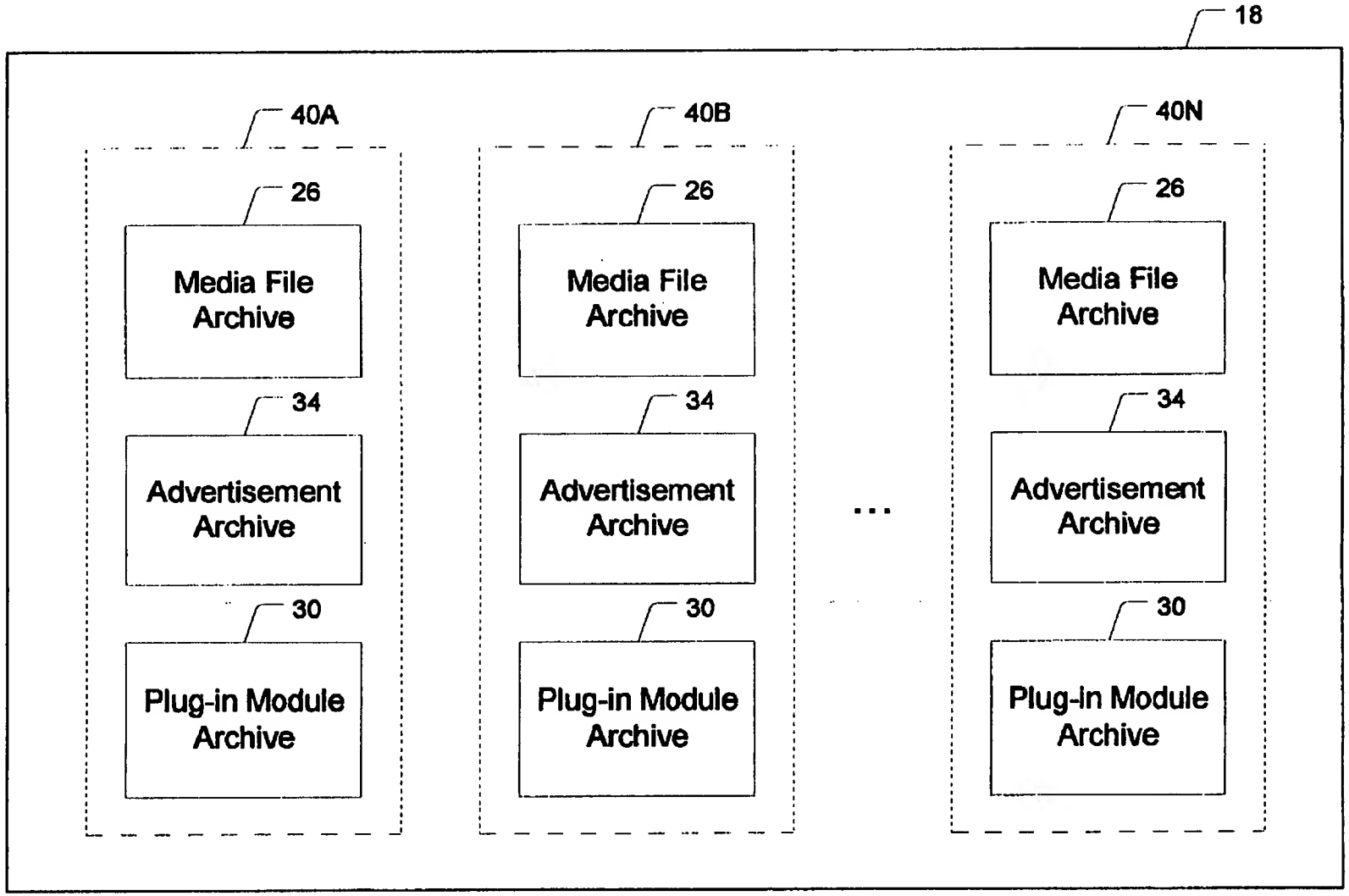

Figure 4b

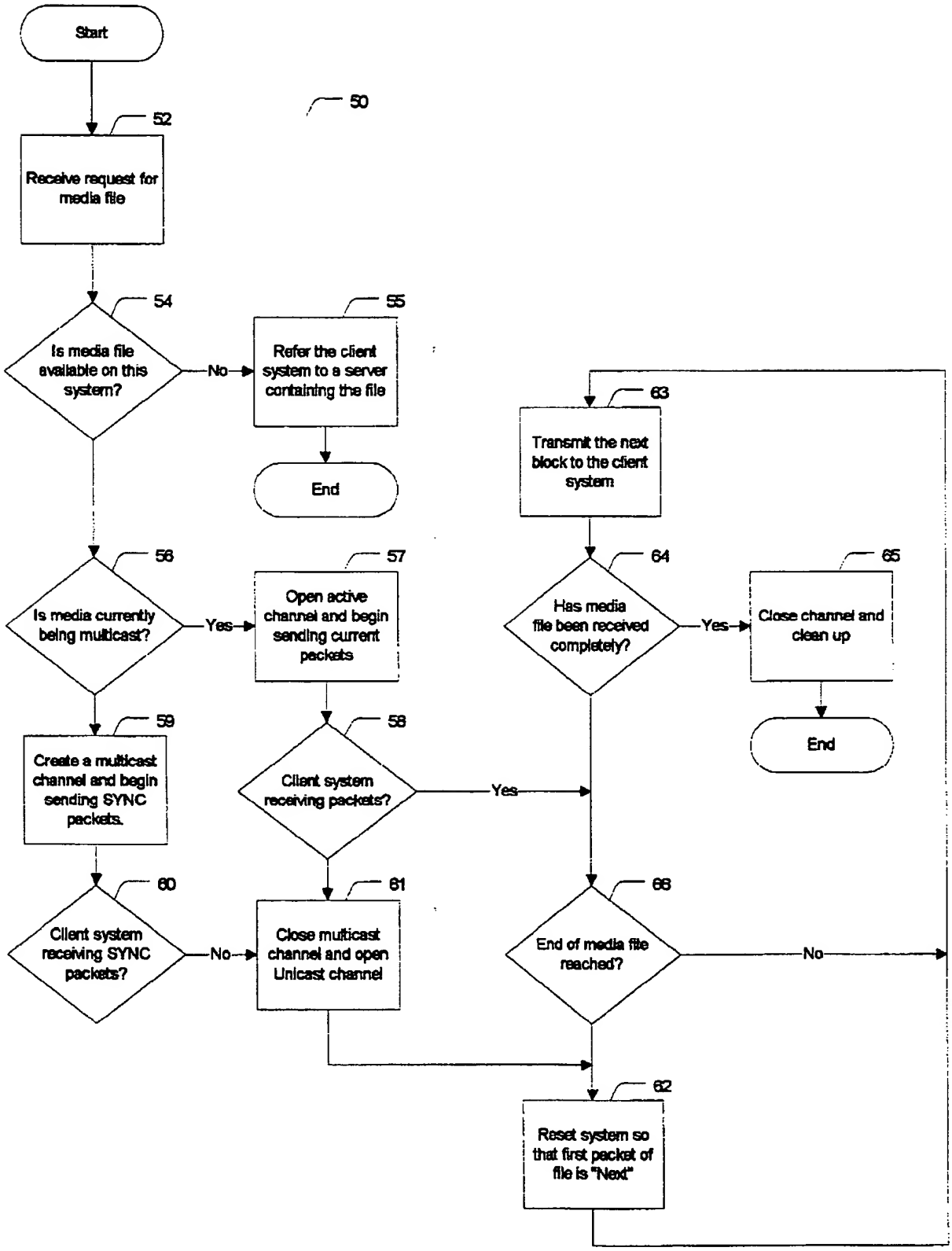
Start
50
52
Receive request for media file
54
Is media file available on this system?
No
55
Refer the client system to a server containing the file
End
56
Is media currently being multicast?
Yes
57
Open active channel and begin sending current packets
59
Create a multicast channel and begin sending SYNC packets.
58
Client system receiving packets?
Yes
60
Client system receiving SYNC packets?
No
61
Close multicast channel and open Unicast channel
63
Transmit the next block to the client system
64
Has media file been received completely?
Yes
65
Close channel and clean up
End
66
End of media file reached?
No
62
Reset system so that first packet of file is "Next"

Figure 4c

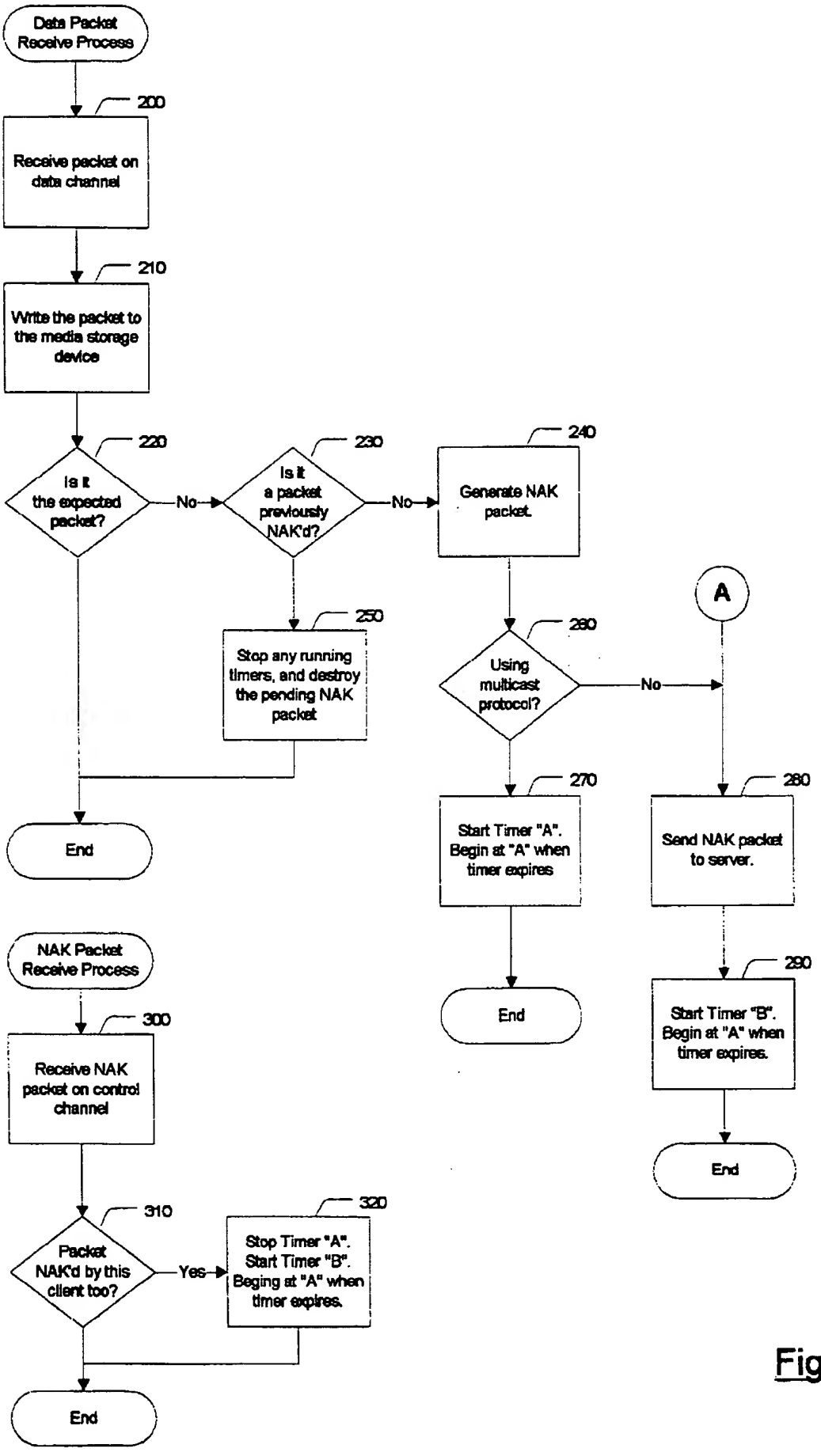
Data Packet Receive Process
200
Receive packet on data channel
210
Write the packet to the media storage device
220
Is it the expected packet?
No
230
Is it a packet previously NAK'd?
No
240
Generate NAK packet.
250
Stop any running timers, and destroy the pending NAK packet
End
260
Using multicast protocol?
No
A
270
Start Timer "A". Begin at "A" when timer expires
End
280
Send NAK packet to server.
290
Start Timer "B". Begin at "A" when timer expires.
End
NAK Packet Receive Process
300
Receive NAK packet on control channel
310
Packet NAK'd by this client too?
Yes
320
Stop Timer "A". Start Timer "B". Beging at "A" when timer expires.
End

Figure 4d

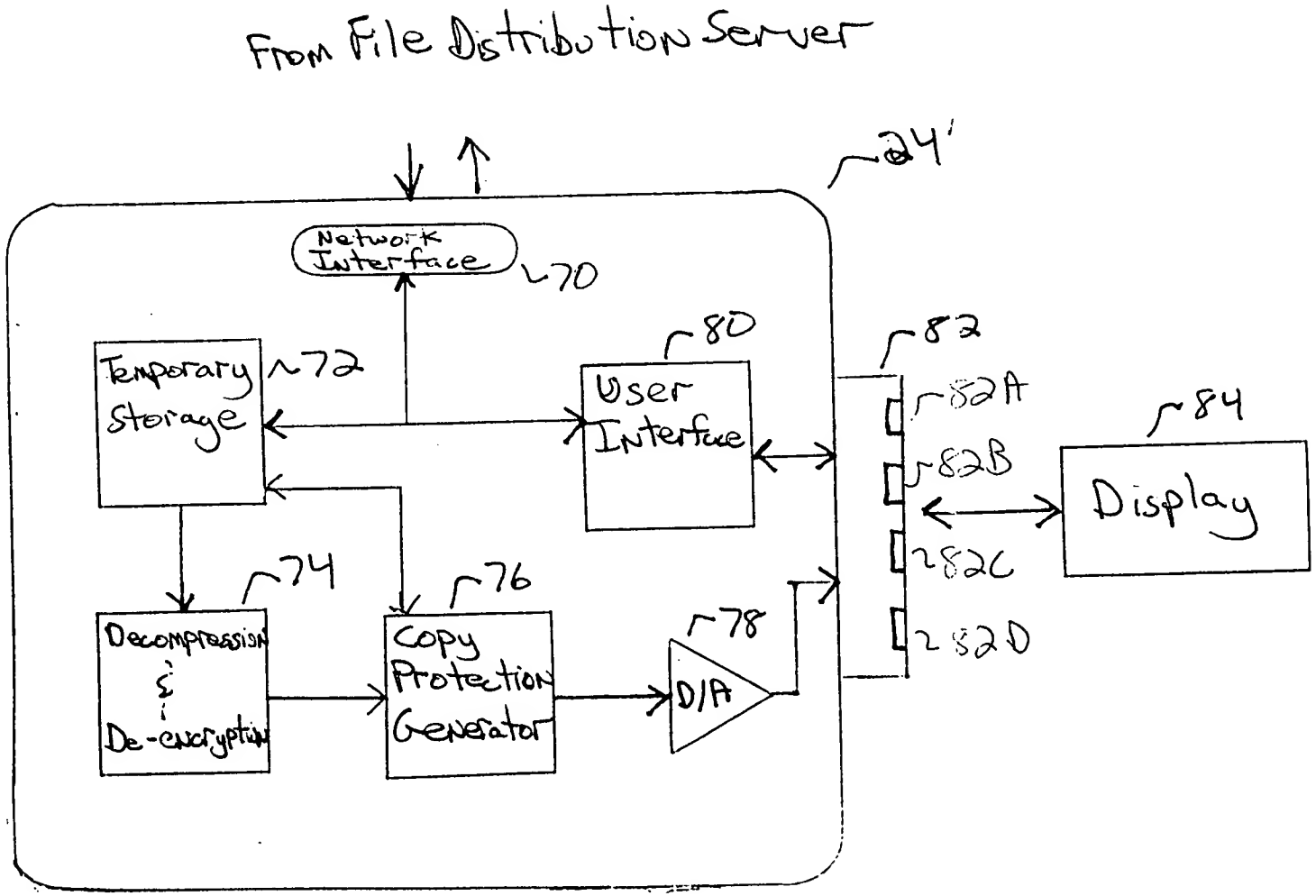
From File Distribution Server
24'
Network Interface
70
Temporary Storage
72
User Interface
80
82
82A
82B
82C
82D
84
Display
74
Decompression & De-encryption
76
Copy Protection Generator
78
D/A

Figure 5

6697nO" 00056260

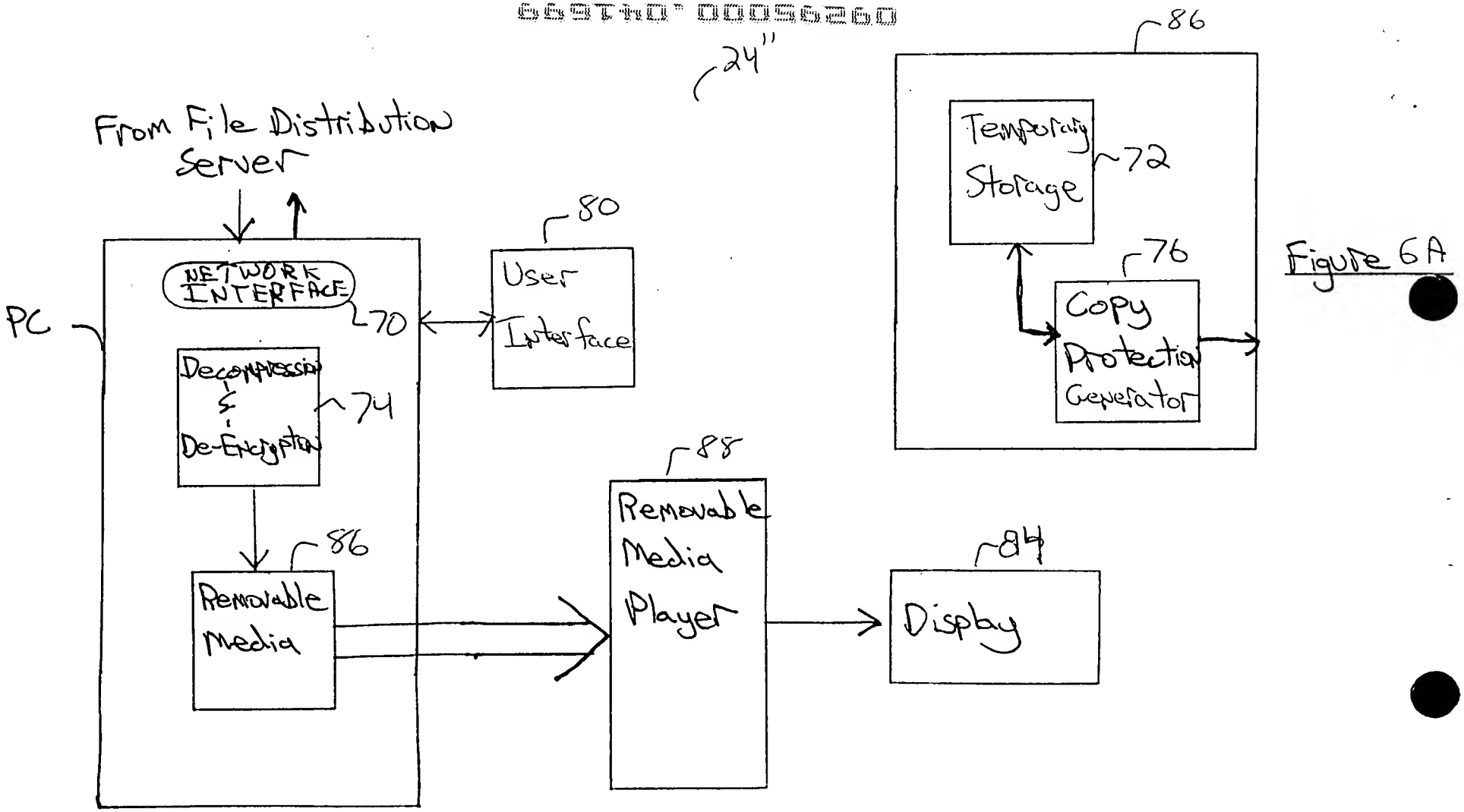

Figure 6A

Figure 6

Sony-0005260

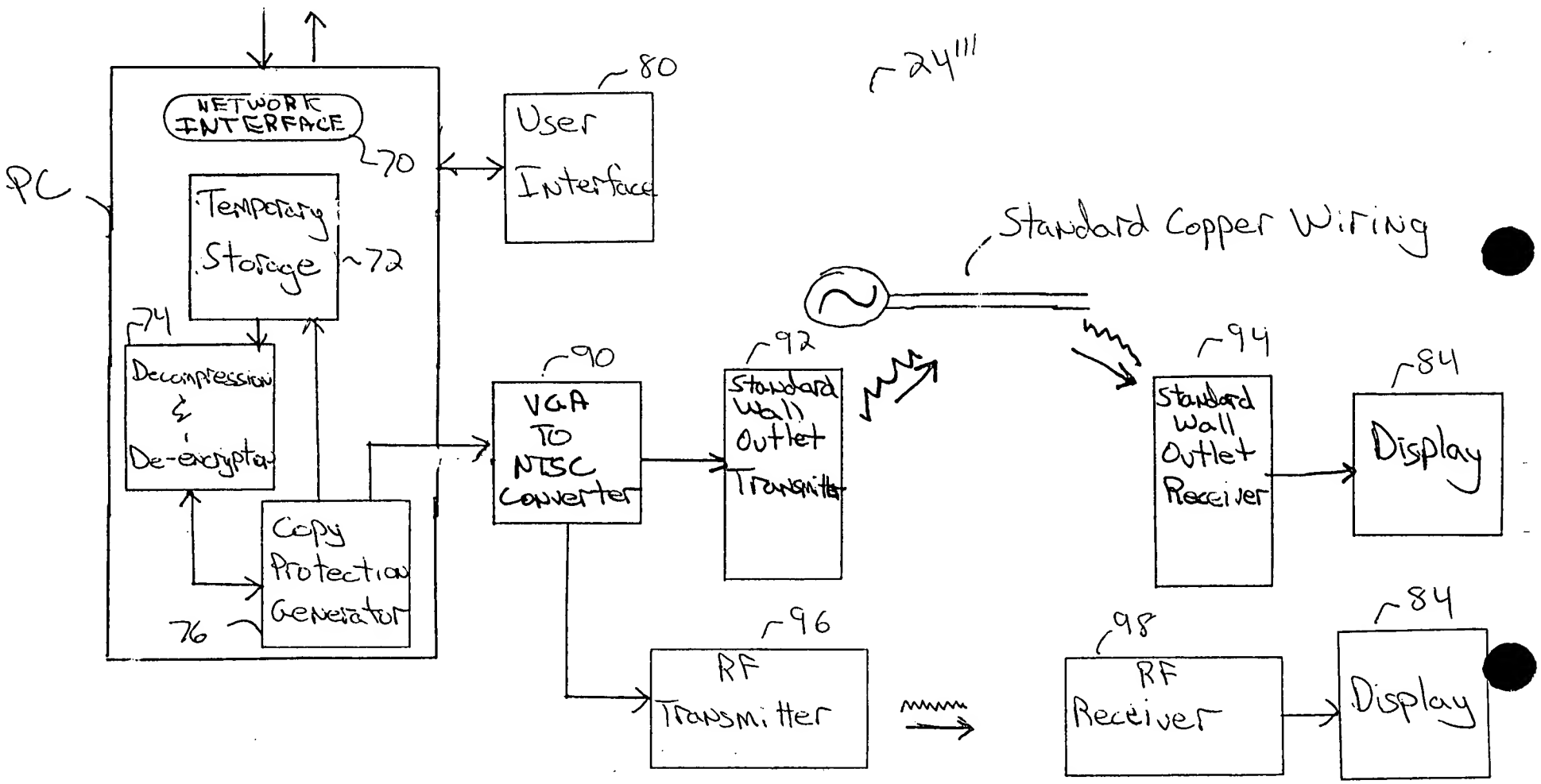

Figure 7

6697h0" 0005626Q

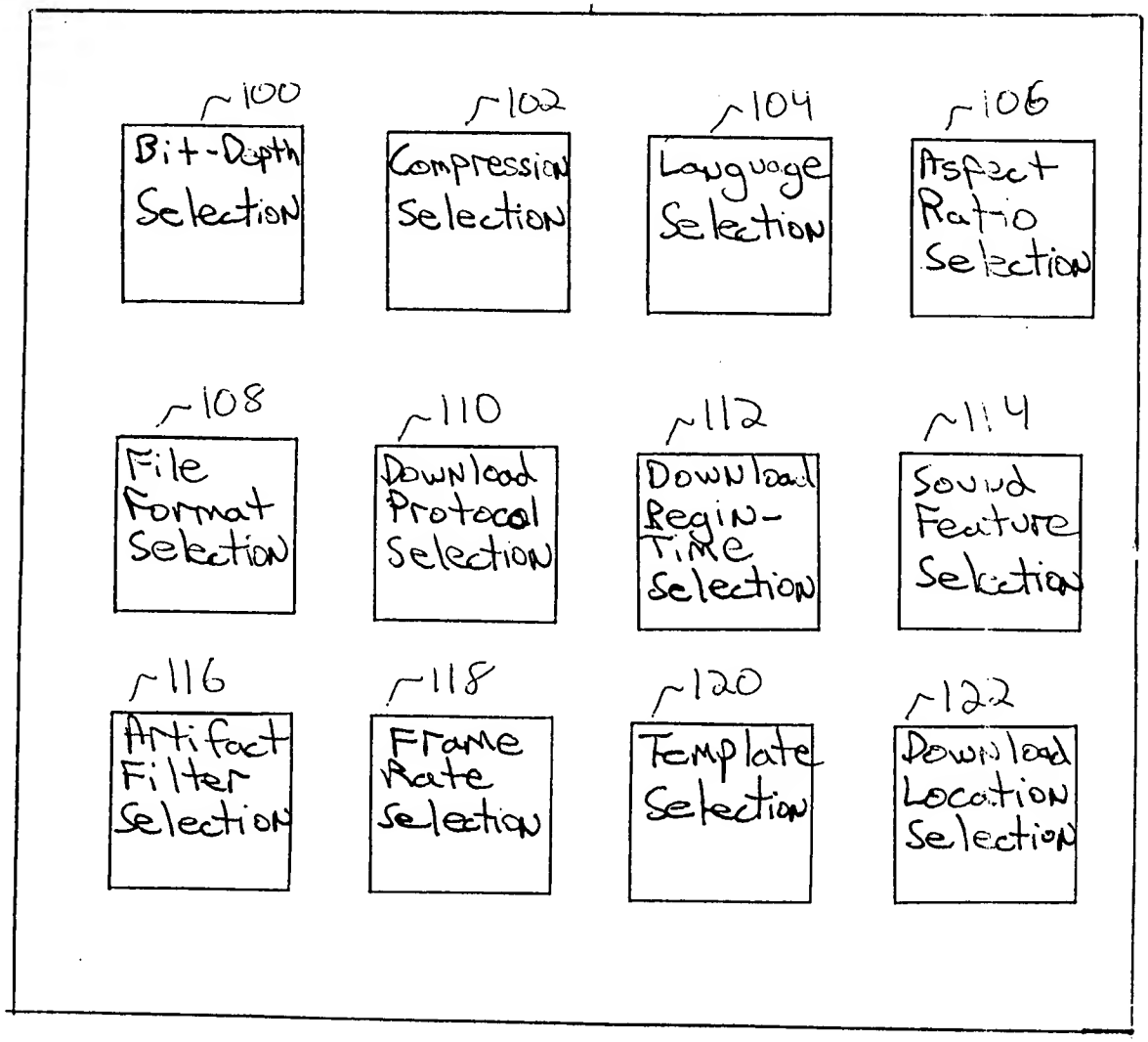

Figure 8

6697h0 0005260

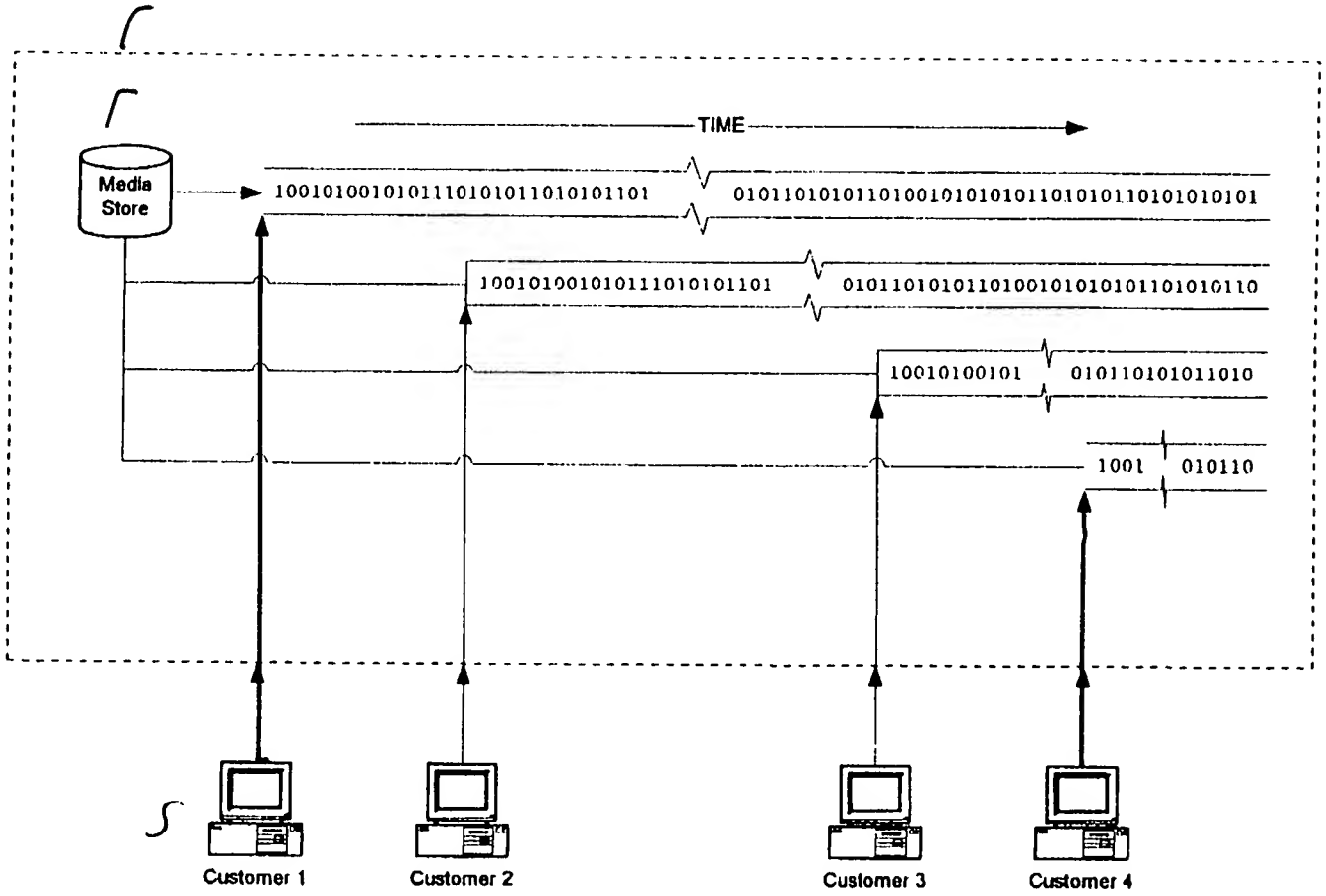

Figure 9A - Prior Art

6697740 00056260

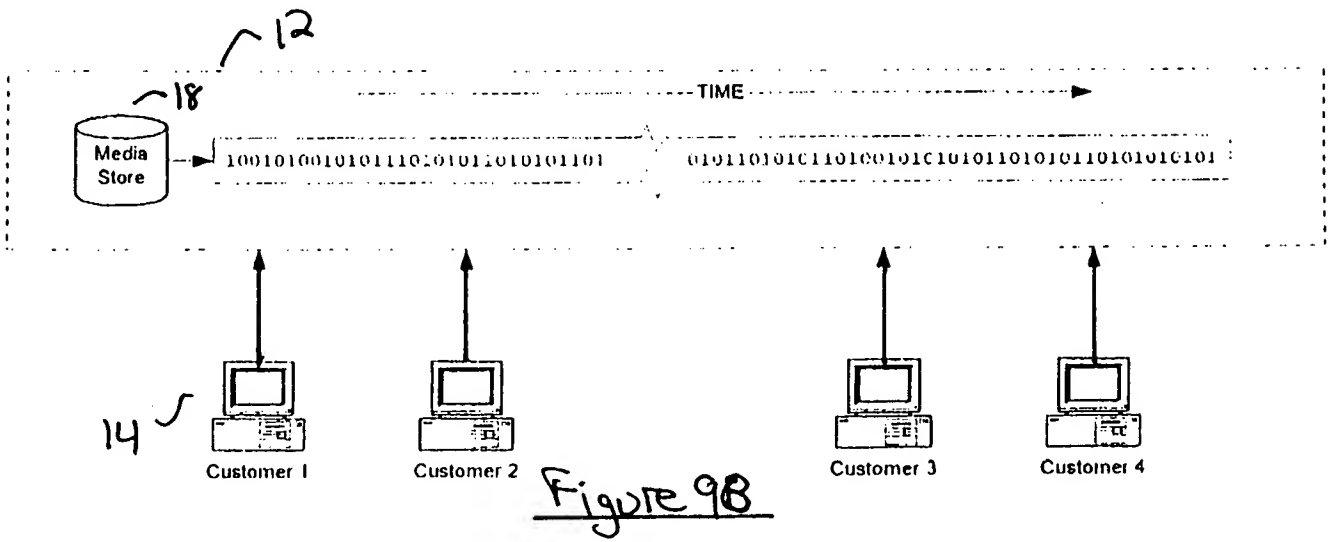

Figure 9B

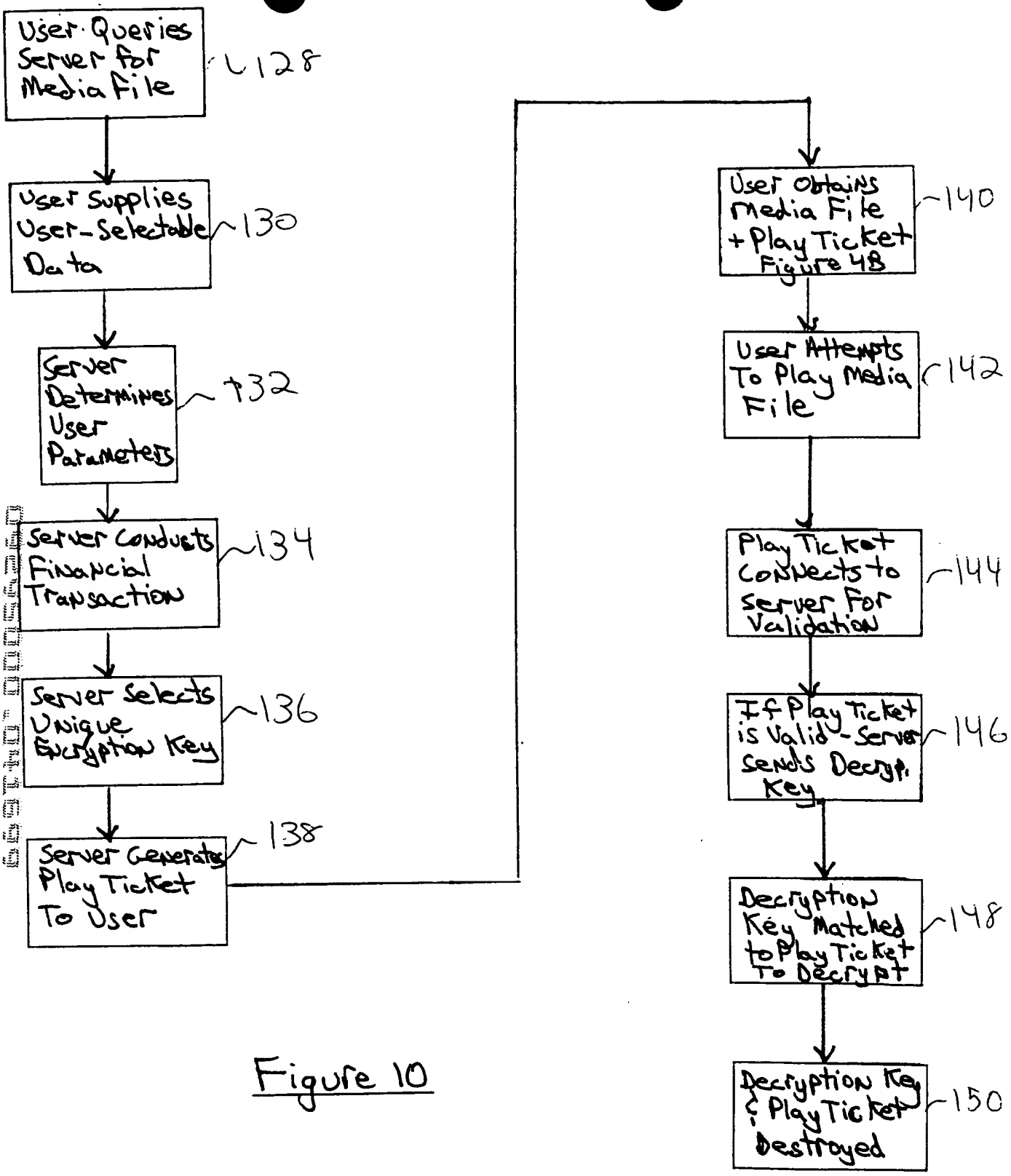
User Queries Server for Media File
128
User Supplies User-Selectable Data
130
Server Determines User Parameters
132
Server Conducts Financial Transaction
134
Server Selects Unique Encryption Key
136
Server Generates Play Ticket To User
138
User Obtains Media File + Play Ticket Figure 4B
140
User Attempts To Play Media File
142
Play Ticket Connects to Server For Validation
144
If Play Ticket is Valid - Server Sends Decrypt. Key
146
Decryption Key Matched to Play Ticket To Decrypt
148
Decryption Key & Play Ticket Destroyed
150

Figure 10